# INDEX OF AUTHORS

Page numbers in italics refer to abstracts of papers presented at a meeting of the Genetical Society.


Aitken, D. A. *273*
Akam, M. E., *277*
Allen, P., 109-115
Andrews, T., 367-371
Anzani, G., 349-358

Begon, M., 13-18
Binns, M. R., 309-319
Bodiner, W. F., *272-273*
Bostock, C. J., *270*
Boughey, H., 219-226
Bridges, B. A., *271, 271-272*
Brumpton, R. J., 219-226
Burley, J. (Ed.), 263-265

Carpenter, R., 169-189
Carritt, B., *276*
Chakravarti, A., 121-123
Chauhan, N. S., 155-159
Child, A. R., 359-365
Clark, J. M., *270-271*
Coluzzi, M., 105-108
Cornish, M. A., 329-338
Coulter, F., 109-115
Crisp, P., 209-218
Cullis, C. A., 129-154 (Rev.)

Darlington, C. D., 126
Doubleday, O. P., *271*
Douglas, L., 253-257
Dow, M. A., 161-168

Eaves, L. J., 79-95
Ebringer, A., *275*
Ehrman, L., 261-262
Ellis, P. R., 209-218
Ellis, W. M., 339-347
Evans, D. A. P., *276*

Fennell, D. J., *277*
Ferguson-Smith, M. A., *273, 274*
Fletcher, J., *269, 269-270*
Foulds, W., 19-24

Gale, J. G., 47-51
Gale, J. S., 401-407
Gatti, M., 105-108
Gavazzi, G., 349-358
Ghidoni, A., 349-358
Ghikas, A., *274*
Gill, Ayesha E., 1-11
Goldfarb, P. S. G., *276*
Gordon, D. H., 197-200
Gosden, C. M. *269-270*
Gosden, J. R., *269-270*
Grant, C. J., *270*
Graziosi, G., *276-277*
Green, C. R., 197-200
Griffiths, A. J. F., 266-268

Hardman, J. A., 209-218
Harper, P. S., *269*
Harris, H., 265-266
Harrison, B. J., 169-189
Hazel, W. N., 227-236
Hexter, W., 262-263
Hinata, K., 391-396
Hooper, M. L., *276*
Hung, A. C. F., 409-411
Hurst, Rona, 259-260

Jinks, J. L., 47-51, 219-226, 237-251, 329-338
Johnson, A. G., 209-218
Jones, David A., 339-347
Jones, L. M., *272*

Kaiser, T., 191-195
Kearsey, M. J., 109-115
Keymer, R. J., 339-347

La Cour, L. F., 126
Lalouel, J. M., 61-77
Lamb, B. C., *274, 275*
Law, C. W., 25-36
Lawrie, S., *269-270*
Lin, C. S., 309-319
Linney, R., 379-390
Lyons, N. F., 197-200

McArthur, E. D., 97-103
McCartney, P. R., 37-45
Mackay, G. R., 201-208
McPhail, J. D., 53-60
Makoff, A. J., *275-276*

Malcolm, S., *274*
Manley, B. F. J., 321-328
Manning J. T., 117-119
Martin, D., *269-270*
Martin, N. G., 79-95
Mather, K., 47-51
Mitchell, A. R., *269-270, 270*
Munday, M. R., 37-45

Nishio, T., 391-396
Novitski, E., 253-257

Olby, R. 125-128
Oxford, G. S., 367-371

Pajuner, L., *272*
Parsons, P., 261-262
Pateman, J. A., *270-271*
Pimpinelli, S., 105-108
Playfer, J. R., *276*
Pooni, H. S., 329-338
Povey, S., *273-274*
Powell, J. N., *270*

Radford, A., *275-276*
Rees, H., *272*
Renwick, J. H., 37-45
Richmond, K. M. V., *277-278*
Roberts, D. B., *276-277*, 277
Robson, E. B., *273*
Ross, M. D., 279-290

Sandri, M., 349-358
Santini, G., 105-108
Seuanez, H., *269, 269-270*
Shaw, W. N., 373-377
Simmonds, N. W. (Ed.), 128, 413-414
Slack, C., *276*
Smouse, K. M. (Ed.), 126-128
Snape, J. W., 25-36
Solomon, E., *272*
Styles, B. T. (Ed), 262-265
Sutherland, G. R., *271*
Suzuki, D. T., 266-268
Swallow, D. M., *272*

Teoh, S. B., *272*
Thompson, B. K., 309-319
Thompson, J. N., Jr., 191-195, 291-307

Vinson, S. B., 409-411
Virk, D. S., 237-251

Walters, C. R., 197-200
Walters, D. E., 401-407
Ward, R. H., (Ed), 126-128
Williams, E. Mair, *269*
Williams, W. R., 109-115
Williamson, D. H., *277*
Williamson, R., *274*
Wolfe, J., *277*
Woodruff, R. C., 291-307
Wooley, P., *275*
Worland, A. J., 25-36

Yen, T. T., 373-377
Yost, H. T., Jr., 262-263
Young, L., 19-24
Young, C. R., *275*
Yu, Pao-Lo, 373-377

# INDEX OF SPECIES

Page numbers in italics refer to the main subjects of the paper


*Aegilops candata*, 281
*Allium cepa*, 281
*Anolis grahami*, *121-123*
*Anopheles gambiae*, *105-108*
*maculipennis*, 107
*Antirrhinum majus*, *169-189*
*Apis mellifera ligustica*, 410
*Arabidopsis thaliana*, 169
*Arisaema* spp., 100
*Ascopolus immersus*, *274*, *275*
*Atriplex canescens*, *97-103*
*hymenelytra*, 99, 101

*Battus philenor*, 235
*Beta vulgaris*, 282
*Brassica campestris*, *201-208*
ssp. rapifera, 201
*olercea*, 201, *391-396*
*Bromus* spp., 119

Cabbage root fly, *209-218*
Carp, *309-319*
*Cepaea nemoralis*, 13
Chinese hamster, *270-271*
*Clarkia franciscana*, 118
*xantiana*, 118
*Cottus asper*, 58
*Crepis capillaris*, 169

*Danthonia* spp., 119
*Datura stramonium*, 150
*Delia brassica*, *209-218*
*Drosophila*, *37-45*, 62, 76, 105, 169, 170, 191, 261, 266, 267
*ananassae*, 292, 300, 305
*hydei*, 106
*melanogaster*, 38, 45, *61-77*, 106, *109-115*, 146, 147, 149, *161-168*, 192, 267, 276, 277, *291-307*, 379
*paulistorum*, 305
*simulans*, 106, 292
*subobscura*, *13-18*, 292
*virilis*, 106, 292
*Willistoni*, 292

*Epilobium hirsutum*, 280, 281
*luteum*, 280
*Escherichia coli*, 271, 271-272
*Euonymus europaeus*, 282

*Festuca microstachys*, 119
Flax, *129-154*

*Gasterosteus aculeatus*, *53-60*
*Gingidia decipiens*, 282
*Glycine max*, 169, 170, 186, 187
*Gorilla gorilla*, *269*, *289-270*
*Gossypium anomalum*, 283
*arboreum*, 283
*barbadense*, 187
groundsel, *367-371*

*Haemophyllis aegyptius*, 270
*Hominidea*, 269
*Hymenoptera*, *409-411*
*Hypericum acutum*, 281
*montanum*, 281

*Kerria lacca*, *155-159*

*Laccifer lacca*, 155
*Lactuca sativa*, 281
*serriola*, 281
*Lathyrus odoratus*, 118
*Limnanthes alba*, 118
*floccosa*, 118
*Linum usitatissimum*, *129-154*
*Lolium perenne*, 344
*Lotus corniculatus*, *19-24*, 283, *339-347*, *397-400*
*pedunculatus*, 281
*uliginosus*, 282
*Lupinus nanus*, 280
*Lycopersicum esculentum*, 169, 187
*peruvianum*, 395

maize, *349-258*
Man, *269*, *269-270*, *271*, *272*, *273*, *276*
*Manihot esculenta*, 283
*Medicago sativa*, 282
*megaselia scalaris*, 298, 300, 304
*Mercurialis annua*, 283
*Microtus californicus*, *1-11*
*montanus*, 9
*Mimulus guttatus*, 344
*Moghania macrophylla*, 155
*Mouse*, *272*, *274*
*Myosurus* spp., 119

*Neurospora crassa*, *275-276*
*Nicotiana bonariensis*, 395
*rustica*, 145, *219-226*, *237-251*, *329-338*
*tabacum*, 169, 186, 187

*Origanum vulgare*, 281, 282

*Pan troglodytes*, *269*, *269-70*
*Papaver rhoeas*, 118
*Papilio glaucus*, 235
*machaon*, 229, 235
*polytes*, *227-236*
*xuthus*, 227
*Paramecium* kappa, 263
*Phaseolus lunatus*, 280, 281
*Pieris brassicae*, 234
*rapae*, 235
*Pimelea*, 279, 282
*oreophila*, 283
*prostrata*, 283
*Sericeo-villosa*, 283
*traversii*, 282
*Pisum arvense*, 253
*sativum*, 118, 169
*Planococcus citri*, 155
*Plantago lanceolata*, 282
*Pongo pygmaeus*, *269*, *269-270*
*Pramys natalensis*, *197-200*
*erythroleucus*, 197
*Primula sinensis*, 118
*Prunus* sp., 395

*Raphanus sativus*, *209-218*
rat, Koletsky, *373-377*
Zucker, *373-377*
*Rosa* sp., 259
*Rubus idaeus*, 282
*Rumex* spp., 101

*Saccharomyces cerevisiae*, *277*, *277-278*
*Salmo trutta*, 362
*Salmonella typhimurium*, 275
*Salvelinus alpinus*, *359-365*
*fontinalis*, 363
*Salvia splendens*, 169
*Schistocerca gregaria*, 63
*Schleichera oleosa*, 156, 157
*Senecio squalidus*, 367, 371
*vulgaris*, *367-371*
*Silene maritima*, 282
*vulgaris*, 282
*Solenopsis* spp., 409
invicta, 409, 410
*Sorghum*, 128
*vulgare*, 282
*Spinacia oleracea*, 100
Sticklebacks, *53-60*
*Stipa*, spp., 119
*Streptocarpus rexii*, 281
*wendlandii*, 281

*Tradescantia* spp., 169
*Trifolium repens*, *19-24*, 339, 346
*pratense*, 395
*subterraneum*, 283
*Triticale*, 128
*Triticum aestivum*, *25-26*
*durum*, 281
*vulgare*, 281

*Urtica dioica*, 100

*Vaccinium augustifolium*, 282
*Vicia faba*, *270*, 282

Wheat, *25-36*

# INDEX OF SUBJECTS


analysis of human N-acetyl hexosaminidases, 272
spontaneous chromosome recombination, 291-307
s-specific proteins in *Brassica*, 391-396
variance, Hayman's, 401-407

behaviour of fertility gene, 279-290
biochemical polymorphism in char, 359-365

chromosomal abnormalities in *Vicia faba*, 270
instability in maize, 349-358
chromosome analysis in wheat, 25-36
recombination, 291-307
chromosomes, heritable fragile sites on human, 271
of *Praomys natalensis*, 197-200
controlled environments, reproductive fitness in, 1-11
covariance structure, genetical analysis of, 79-95
cyanogenesis, 19-24
frequency of , 397-400
in *Lotus*, 339-347, 397-400
cytogenetics of apes, 269

diallel cross analysis, 309-319
method of recognising *S* allele homozygotes in turnip, 201-208
dimorphism in *Papilio*, 227-236
dominance, evolution of, 117-119
*Drosophila* population, effective size of, 13-18
duplication in maize, 349-358

effective population size, 13-18
electrophoretic techniques and genetic variability, 409-411
environmental changes of sex expression in *Atriplex*, 97-103
enzyme activity, selection on ADH allelles in, 191-195

fitness, characters affecting, in groundsel, 367-371
fluorescence banding techniques in *anopheles gambiae*, 105-108
frosting and droughting, effect on photosynthesis in *L. Corniculatus* and *T. repens*, 19-24

gamma ray and UV mutability, 271-272
G-banding analysis, 197-200
gene conversion data, 275
dosage effect in man, 273
for arginosuccinate synthetase, 276
inactivation in B chromosomes of *Picae glauca*, 272
mapping, 273-274, 274
genetic control of immune response, 275
differentiation in lizard *Anolis grahami*, 121-123
polymorphism in a plasma enzyme, 276
variability in *Hymenoptera*, 409-411
genetical analysis of covariance structure, 79-95
genetical and environmental interactions in resistance to cabbage root fly, 209-218
genetics of obesity in rats, 373-377
somatic cells, 272
Welsh gypsies, 269
genotype-environment interaction, 309-319
in *Lotus corniculatus*, 339-347

Hurst collection of genetical material, 259-260
hybridisation of Chinese hamster cells, 270-271

incompatibility in turnip, 201-208
intensity of natural selection, 321-328
selection, 413-414
interpopulation differences in size in Sticklebacks, 53-60

linkage and Mendel's experiments, 253-257
mapping, 61-77
loci, pattern of, 37-45

mating success in *Drosophila*, 161-168
mean performance and sensitivity to macro-environmental variable, 219-226
mitotic segregation of chromatids in *S. cerevisiae*, 277
molecular aspects of flax genotrophs, 129-154
mutator effects in *E. coli*, 271

natural selection, intensity of, 321-328
non-normality in distribution of pure-breeding lines, 329-338

obesity in rats, 373-377

pattern of loci on *Drosophila* chromosomes, 37-45
pedigree studies, 273
plasma paroxonase activity, 276
polymorphism at 2 loci, 379-390
  for female sterility in *Drosophila*, 109-115
  in Californian vole, 1-11
  in char, 359-365
  of cyanogenesis in *Lotus*, 339-347
postmeiotic segregation in *Ascobolus*, 274
potassium cyanide, effect on cyanogenic forms of *L. Corniculatus* and *T. repens*, 19-24
protein synthesis in fertilised *Drosophila* egg, 276
*pyr-3* gene product, purification of, in *Neurospera*, 275

recombinant inbred lines, 329-338
recombination data linkage mapping from, 61-77
regression analysis for genotype-environment interaction, 309-319
reproduction, differences in size at, in Sticklebacks, 53-60
reproductive fitness of genotypes, 1-11
resistance to cabbage root fly, 209-218

satellite DNA in man and apes, 269-270, 270
scaling tests, 47-51
selection for linear metric derivation, 379-390
  mating success in *Drosophila*, 161-168
  on ADH alleles, 191-195
serum proteins in *Drosophila*, 277
sex-differential fertility genes, 279-290
sex expression in *atriplex*, 97-103
simplified triple test-cross, 237-251
soil moisture and frequency of cyanogenesis in *Lotus*, 397-400
somatic cell genetics, 272
  crossing-over in *Antirrhinum majus*, 161-189
spontaneous recombination in *Drosophila*, 291-307
S-specific protein in *Brassica*, 391-396
Sterility in *Drosophila*, genetic polymorphism for, 109-115

temperature, effect, on polymorphism of cyanogenesis, 339-347
temperature-sensitive mutant of *S. cerevisiae*, 277

variation in characters affecting fitness in groundsel, 367-371